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GAGAACAATCCATTTCTAGGGTTTGCAGGAGCTATCGGENN N P F L G F A G A I CATAGAAATATCTTATGAAGCATTCGACGTAAAI T E F E I S Y E A F D V F	AGTCCAATACTTAAGAATAAACACGCTGACTTTACTGTTS S P I L K N K H A D F T V CGAGAACAATCCATTTCTAGGGTTTGCAGGAGCTATCGGT E N N P F L G F A G A I G ATAGAATTCGAAATATCTTATGAAGCATTCGACGTAAAA I E F E I S Y E A F D V K	A K E E S K S T V G V F G A GTCCAATACTAACACTGTTGGAGTTTTTGGAT AGTCCAATACTTAAGAATAAACACGCTGACTTTACTGTTC S P I L K N K H A D F T V GAGAACAATCCATTTCTAGGGTTTGCAGGAGCTATCGGTT E N N P F L G F A G A I G ATAGAATTCGAAATATCTTATGAAGCATTCGACGTAAAA I E F E I S Y E A F D V K	GGTAACTTCTATATTAGTGGAAAGTATGTACCAAGTGTCTGG N F Y I S G K Y V P S V S CTAAAGAAAGCAAATCAACTGTTGGAGTTTTTGGATTAGGATTTTTGGATTTTGGATTAGAATAAACACGCTGACTTTACTGTTGGAGTTTGGAGGTTTGGAGATTACTGTTGGAGGTTTGCAGGAGCTATCGGTTTGAAAAAAAA	M Y S I P S I F S D TAACTTCTATATTAGTGGAAAGTATGTACCAAGT N F Y I S G K Y V P S TAAAGAAGAAATCAACTGTTGGAGTTTTTTTTTTTTTT
CGAGAACAATCCATTTCTAGGGTTTGCAGGAGCTA E N N P F L G F A G A AATAGAATTCGAAATATCTTATGAAGCATTCGACG	AAGTCCAATACTTAAGAATAAACACGCTGACTTTA S P I L K N K H A D F ' CGAGAACAATCCATTTCTAGGGTTTGCAGGAGCTA E N N P F L G F A G A AATAGAATTCGAAATATCTTATGAAGCATTCGACG	AGCTAAAGAAAGCAAATCAACTGTTGGAGTTT A K E E S K S T V G V AAGTCCAATACTTAAGAATAAACACGCTGACTTTA S P I L K N K H A D F CGAGAACAATCCATTTCTAGGGTTTGCAGGAGCTA E N N P F L G F A G A AATAGAATTCGAAATATCTTATGAAGCATTCGACG	GGTAACTTCTATATTAGTGGAAAGTATGTACCAA G N F Y I S G K Y V P NGCTAAAGAAAGCAAATCAACTGTTGGAGTTT A K E E S K S T V G V NAGTCCAATACTTAAGAATAAACACGCTGACTTTA S P I L K N K H A D F NGAGAACAATCCATTTCTAGGGTTTGCAGGAGCTA E N N P F L G F A G A NATAGAATTCGAAATATCTTATGAAGCATTCGACG	TTAATGTACTCTATTCCAAGCATATCTTTTTCTG L M Y S I P S I S F S I GGTAACTTCTATATTAGTGGAAAGTATGTACCAA G N F Y I S G K Y V P S GCTAAAGAAAGCAAATCAACTGTTGGAGTTT A K E E S K S T V G V AGTCCAATACTTAAGAATAAACACGCTGACTTTA S P I L K N K H A D F GAGAACAATCCATTTCTAGGGTTTGCAGGAGCTA E N N P F L G F A G A ATAGAATTCGAAATATCTTATGAAGCATTCGACG
	AAGTCCAATACTTAAGAATAAACACGCTGACTTTA S P I L K N K H A D F	AGCTAAAGAAAGCAAATCAACTGTTGGAGTTT A K E E S K S T V G V AAGTCCAATAAGAATAAACACGCTGACTTTA	GGTAACTTCTATATTAGTGGAAAGTATGTACCAAG N F Y I S G K Y V P CCTAAAGAAAGCAAATCAACTGTTGGAGTTTGAGTTTTTA S T V G V AGTCCAATAAGAATAAACACGCTGACTTTAAGAATAAACACGCTGACTTTAAGAATAAAACACGCTGACTTTAAGAATAAAACACGCTGACTTTAAGAATAAAAAAAA	TTAATGTACTCTATTCCAAGCATATCTTTTTCTG L M Y S I P S I F F S GGTAACTTCTATATTAGTGGAAAGTATGTACCAA G N F Y I S G K Y V P GCTAAAGAAAGCAAATCAACTGTTGGAGTTT A K E E S K S T V G V AGTCCAATACTTAAGAATAAACACGCTGACTTTA S P I L K N K H A D F

1607	CACTAAAGGATGCAAGCWGCAGCCACACAWTAGACCCCAAGTACAATG 10 NO: 1)
1500	ACTTTTACATTAGTGCAAAGTATATGCCAAGTGCCTCACACTTTGGCGTATTTTCAGTTA
1380 1440	TAGGTTATAATAAWATGAATTGCMAAAGATTTTTCTATAGCAAGTGCATTGATATCACTAA TGTCTTTCTTACCTAGCGTATCTTTTTCTGAATCAATACATGAAGATAATAATAAATGGTA
1320	TATATATTCTGACTTGTTCTTCTGCACTTCTACTATTTTAATTTATTT
1260	CCAATCTTATATATATATTAAATTTTCTCTTACAAAAATCACTAGTATTTTATACCAAAA
1200	CTTAAACAACAGAAGGTAATATCCTCACGGAAAACTTATCTTCAAATATTTTATTAA
1140	GGGGGGGGGGGCCAAATTTATCTTCTATGCTTCCCAAGTTTTTTCYCGCTATTTATGA
1080	G G R F N F (SEQ. ID NO: 2) tttttawtattgctacatacaaaaaaaaaaaaaaaaaaaa
1020	TGGAGGAAGATTTAACTTC TAA TTTTTATTGTTGCCACATATTAAAAATGATCTAAACTTG
960	AATAAGTGGACCACAATTTGCAACAGTAACACTAAATGTGTGTCACTTTGGTTTAGAACT $f I$ $f S$ $f G$ $f P$ $f Q$ $f F$ $f A$ $f T$ $f V$ $f T$ $f L$ $f N$ $f V$ $f C$ $f H$ $f F$ $f G$ $f L$ $f E$ $f L$
006	CAGGATCATAGGTAATTAGAGATATTCCTGCAATAGTACCTAGTAACTCAACTAC R I I G N E F R D I P A I V P S N S T T
780	TGGTACTGATTTCTATGTTTGAAGCTACAAGTCCTAAAATTTCCTACCAAGGAAA G T D L I S M F E A T S P K I S Y Q G K

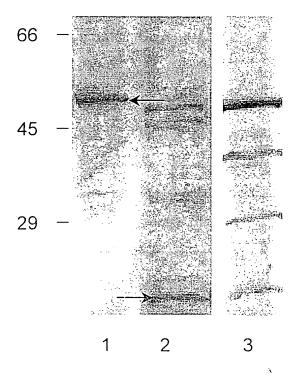
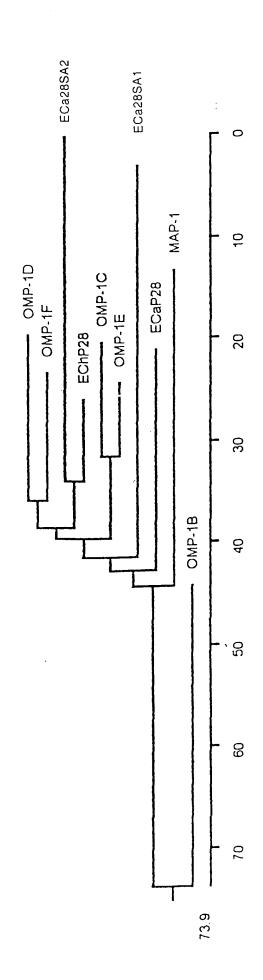


Fig. 2

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HTSAAMEADKFVFLKNEGLIDISLAINACYDIINDKVPVSPYICAGIGTDLISMFEATSPKISYQGKLGISY HICSDGNSGDWYTAKTL.N.FMLTTE.M.FVVGEGI.F	T. SRV. A. KV. KG. TLL.DG.NIKVQQSDI.S.F. (SEQ S. A. KV. KV. KG. TLL.DG.NIKVQQSDIS.F. (SEQ P. T. V.A. YY.GV. N.NK. VITPV.LEGAPQTTSL. IDTGY.G.V.V. T. (SEQ P. T. V.A. YY.GV. N.NK. VITPV.LEGAPQTTSL. IDTGY.G.V.V. T. (SEQ P. S. A. V. KVA. STLKAFATPSSAATPDL. S. V. O. (SEQ P. S. A. V. KV. TMI. E. ALAGKGNYP. I. D. FY. I. OL (SEQ P. S. A. V. KV. TMI. T. ATSRVTSS-ATPDL. I. S. I. S. I. S. A. V. KV. TMI. T. LTGN-H. TI. S. I. S. A. V. KV. TMI. T. LTGN-H. TI. S. II. S. A. V. KV. TMI. T. LTGN-H. TI. S. II. S. A. V. KV. TMI. T. LTGN-H. TI. S. SAI. D. II.
ECaP28. ECa28SA2 ECa28SA1 EChP28 OMP-1B OMP-1C OMP-1E OMP-1F	ECaP28 ECa28SA1 ECA28SA1 EChP28 OMP-1B OMP-1C OMP-1C



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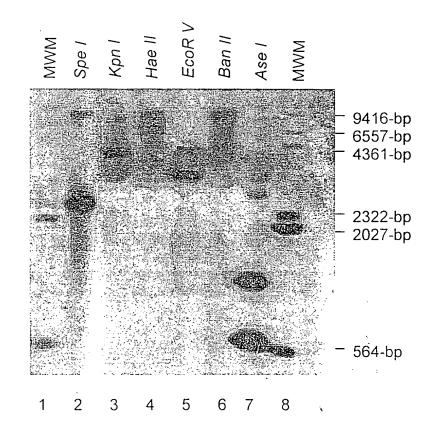
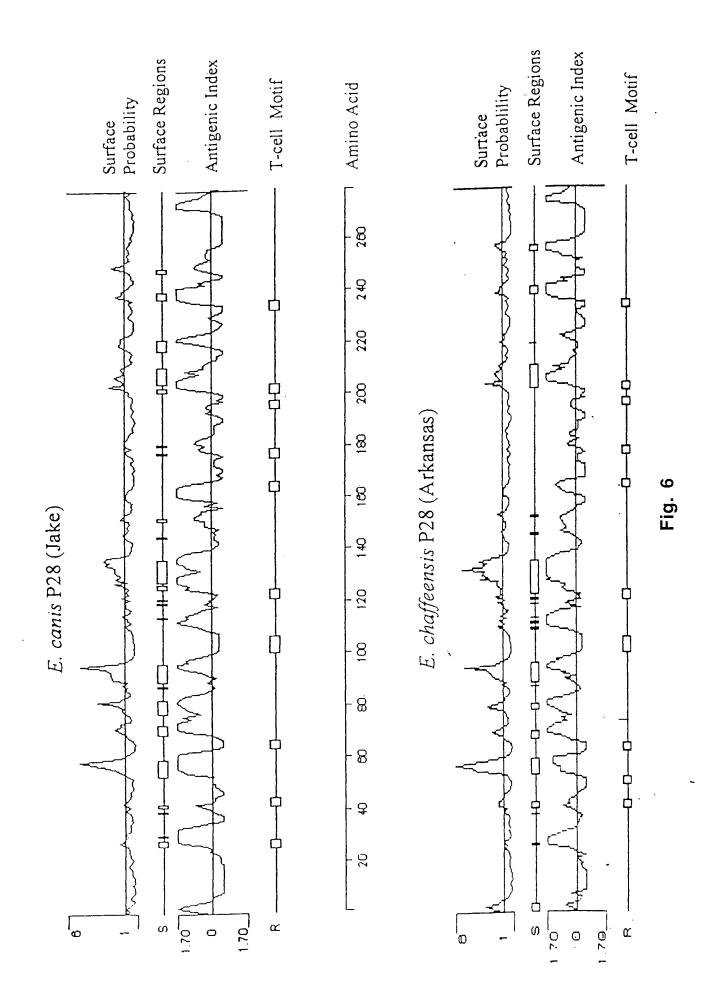


Fig. 5



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- 240 AAGACAACTGTAGTATATGGCTTAAAAGAAAACTGGGCAGGAGATGCAATATCTAGTCAA Ŋ Ŋ Ø Д ტ Ø Z Z 团 X ᆸ ტ × > >
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- 420 rettatgaagcatttgatgtgaaaaatccaggtgataattacaaaaacggtgcttacagg ď ტ Z × × Z Д ტ Д z × \triangleright Д ſι ď
- 480 PATTGTGCTTTTATCTCATCAAGATGATGCGGATGATGACATGACTAGTGCAACTGACAAA ø ß Σ Д Д Д Ø Д Д Ø コ Ŋ
- 540 **LTTGTATATTTAATTAATGAAGGATTACTTAACATATCATTTTATGACAAACATATGTTAT** × Z Н Σ Ŀ ഗ Н Z Ц Ы U 臼 Z Н
- 009 SAAACAGCAAGCAAAAATATACCTCTCTCTCTTACATATGTGCAGGTATTGGTACTGAT Н Ö Н ტ Ø U Н × Д ഗ ᆸ Д Н Z X S 闰
- 099 **ITAATTCACATGTTTGAAACTACACATCCTAAAATTTCTTATCAAGGAAAGCTAGGGTTG** G ტ Ø × Ø Н × Д 出 H H ſΉ Ŀ Σ

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- 840 CCACAGTTTGCAACAGTAACATTAAATGTATGCTACTTTGGATTAGAACTTGGATGTAGG Ö 口 ᠐ H × Ö > Z
- 900 TTCAACTTC**TAA**TTTCGTGGTACACATATCACGAAGCTAAAATTGTTTTTTATCTCTGC * (SEQ ID NO: 4) (SEQ ID NO: 3)
- 1140 1020 TGTATACAAGAGAAAAATAGTAGTGAAAATTACCTAACAATATGACAGTACAAGTTTAC AGCTTCACTACTGTAGAGTGTGTTTATCAATGCTTTGTTTATTAATACTCTACATAATAT CAAGCTTATTCTCACAAAACTTCTTGTGTCTTTTATCTCTTTACAATGAAATGTACACTT

1200 ATTTGCTTTATACTTCCACTATTGTTAATTTATTTTCACTATTTTAGGTGTAAT**ATG**AAT ECa28SA3

- TGCAAAAAAATTCTTATAACAACTGCATTAATGTCATTAATGTACTATGCTCCAAGCATA Þ × \succ Ξ Ц ഗ ⋈ Ц Ø Е Ц
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1560 GCAGGAGCTATTGGTTATTCAATGGGTGGCCCAAGAATAGAACTTGAAGTTCTGTACGAG A G A I G Y S M G G P R I E L E V L Y E 1620 ACATTCGATGTGAAAAATCAGAACAATAATTATAAGAACGGCGCACACAGATACTGTGCT Z ĸ × Z Z Z ŏ N N

1680 TTATCTCATCATGCTAGCATGTCCTCCGCAAGTAACAATTTGTTTTCTTA L S H H S S A T S M S S A S N K F V F L 1740 Z Н Σ ß Д ტ

1800 GAAGGAATGCCTTTTTCACCTTATATTTTGTGCAGGTGTTGGTACTGATGTTGTTTCCATG Ŋ TDVV ტ ბ Ø × Д ഗ 1860 TTTGAAGCTATAAATTTCTTACCAAGGAAAACTAGGATTAGGTTATAGTATA F E A I N P K I S Y Q G K L G L G Y S I 1920 AGTTCAGAAGCCTCTGTTTTTATCGGTGGACACTTTCACAGAGTCATAGGTAATGAATTT > ഷ 出 ſτι Ħ ტ Щ 闰

1980 2 AGAGACATCCCTGCTATGGTTCCTAGTGGATCAAATCTTCCAGAAAACCAATTTGCAATA Z Ы Д ᆸ Z ഗ Ŋ Д \gt Σ

GTAACACTAAATGTGTGTCACTTTGGCATAGAACTTGGAGGAAGATTTAACTTCTGA 2031 ტ . ტ Ы r Z

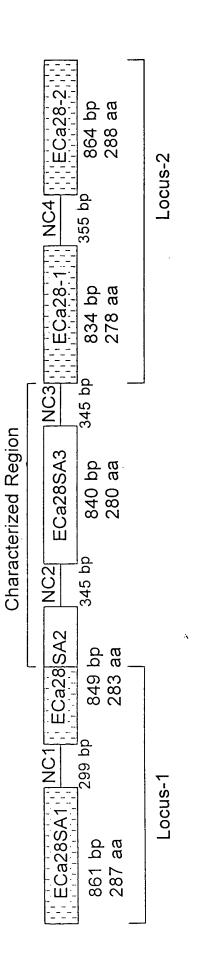


Fig. 8

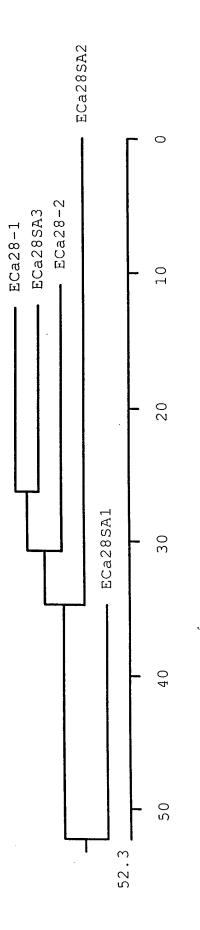


Fig. 9

28nc1 28nc2 28nc3 28nc3	28nc1 28nc2 28nc3 28nc3	28nc1 28nc2 28nc3 28nc3	28nc1 28nc2 28nc3 28nc3	28nc1 28nc2 28nc3 28nc4		
TAATACTTCTATTGT-ACATGTTAAAATAGTACTAGTTTGCTTCTGTGGTTTATAAACGCAAGAGAAATTCGTGG.ACA.C.CGGCAA.T.G.TTT.A.CTC.GC.GTAAGA.ATA .GTT.AT.GCCAGA.CTA.ACTT.A.TAGCC.TAAA.AAAAAAAAAA	ATAGTTAGTAATAATTAGAAAGTTAAATATTAGAAAAGT-CA GGAAAATTACCACTGACT.CAAGTTTACCGCTCTC.CC.T.T GGCAAAAGAATGCGAGG.GGG.GGGGACTTCCTTCT.TTC.T.T	2 TATGTTTTTCATTGTCATTGAT-ACTCAACTAAAAGTAGTATAAATGTAAATGT	9TACTTATTAATAAT-TTTACGTAGTATTTAAATTTCCCTTACAAAGCCACTAGTATTTTATA 5 TT.GTC.CAAGTTCTAA 2 TTTCCCCTAATAT.TA.G	2 CTAAAAGC-TATACTTTGGCTTGTATTTTAATTTTTACTACTGTTTAATTTTACTT-TCACTGTTTCT 9T.G.ATAT.CAGCACCCTTTATGATA 8TTATAT.CACTCTC.CCCTT	2 GGTGTAAAT 28nc1 (SEQ ID NO: 30) 8 28nc2 (SEQ ID NO: 31) 9 28nc3 (SEQ ID NO: 32) 9 TA-Aw 28nc4 (SEQ ID NO: 33) RBS	Fig. 10
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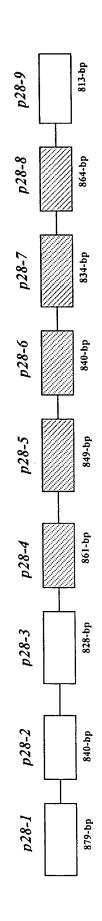


Fig. 11

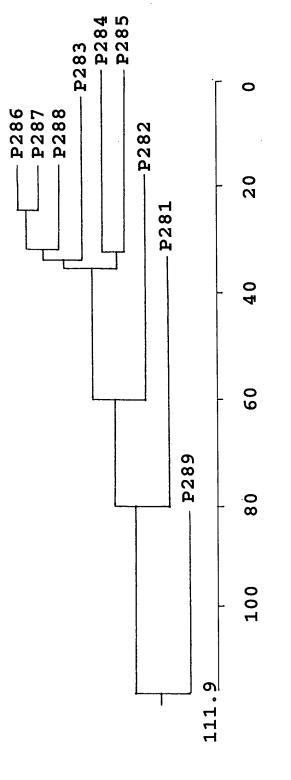


Fig. 12

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P	N	I	S	S	S	K	A	I	N	N	N	A	K	K	Y	Y	G	L	Y	
AT	CAG'	rggz	ACAZ	ATA	TAA	ACC	CAG	TGT	TTC	TGT	TTT	CAG'	TAA	ттт	TTC	AGT	TAA	AGA	AACC	180
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ATCACACCAGAAGTCTCTGCATTTATTGGTGGATACTACCATGGCGTTATTGGTAATAAA 720
    PEVSAFIGGYYHGVIGN
TTTGAGAAGATACCTGTAATAACTCCTGTAGTATTAAATGATGCTCCTCAAACCACATCT 780
F E
    K
       I P
           VITPVVLNDAP
                                     O T T
GCTTCAGTAACTCTTGACGTTGGATACTTTGGCGGAGAAATTGGAATGAGGTTCACCTTC 840
                                     (SEO ID No. 41)
 SVTLDVGYFGGEIGM
                                     R F T
                                           F
                                     (SEQ ID No. 42)
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